Index to Volume 15 (1994)

Number 1 (January) pp 1–120 Number 2 (April) pp 121–240 Number 3 (July) pp 241–384 Number 4 (October) pp 385–480

SUBJECT INDEX

Number 1

Editorial Nigel Cross, 3

The user as a scenic feature of the design space Wes Sharrock and Bob Anderson, 5

Exploring communications in collaborative design: co-operative architectural modelling *Chengzhi Peng*, 19

Hypermedia support for collaborative design Jesus Favela, Kenji Imai and Jerome J Connor, 45

A framework for representing design intent Rajaram Ganeshan, James Garrett and Susan Finger, 59

Form creation techniques for automatic CAD Michael Tovey, 85

Number 2

Editorial Michael Tovey, 123

Discovering the design problem Peter Lloyd and Peter Scott, 125 Precedents in design: a computational model for the organ-

ization of precendent knowledge Rivka Oxman, 141 On visual design thinking: the vis kids of architecture Gabriela

Goldschmidt, 158
Industrial design engineering and the theory of direct perception Gerda Smets and Kees Over-

beeke, 175 A Study of visual features for icon design Rungtai Lin, 185

Technology literacy: the construction of meaning Terry Liddament, 198

Reasoning with Design Rationale: practical experience with Design Space Analysis Diane McKerlie and Allan MacLean, 214

Number 3

Editorial James Powell and Ian Cooper, 242

Design Studies Award for 1993, 247 A construction-led design process for tubular trusses Walid M K Tizani, Gwynne Davies and Timothy J McCarthy, 248

Accessing of information for engineering design I A Macleod, D R McGregor and G H Hutton, 260 Tell them a story!: a theoretical model to assist in the transfer of architectural design information through video *Philip J Rhodes and James A Powell*, 270

Informing multimedia: a sensitive interface to data for construction design professionals James A Powell and Paul Newland, 285

Process modelling in civil engineering design D G Platt and D I Blockley, 317

Virtuous circles, building sciences and the science of buildings: using computers to integrate product and process in the built environment *Bill Hillier* and Alan Penn. 332

From map to model: the development of an urban information system *Alan Day*, 366

Number 4

Editorial Norbert Roozenberg, 387 Announcement, 388

Design science or nonscience, Philip Sargent, 389

Bridging process and structure through criteria M Portillo and J H Dohr, 403

The integration of product and process models for design W P S Dias and D I Blockley, 417

A critical framework for methodological research in architecture Jill M Franz, 433

Guidelines or aesthetics: design learning strategies *Erik Solterman*, 448

An appraisal of ecolabelling from a design perspective *Philip A Goggin*, 459

AUTHOR INDEX Anderson, B. 5

Blockley, D I, 317, 417

Connor, JJ, 45

Davies, G, 248 Day, A, 366 Dias, W P S, 417 Dohr, J H, 403

Favela, J, 45

Finger, S, 59 Franz, J H, 433

Ganeshan, R, 59 Garrett, J, 59 Goggin, P A, 459 Goldschmidt, G, 158

Hillier, B, 332 Hutton, G H, 260

Imai, K, 45

Liddament, T, 198 Lin, R, 185 Lloyd, P, 125

MacLean, A, 214 Macleod, I A, 260 McCarthy, T J, 248 McGregor, D R, 260 McKerlie, D, 214

Newland, P, 285

Overbeeke, K, 175 Oxman, R, 141

Peng, C, 19 Penn, A, 332 Platt, D G, 317 Portillo, M, 403 Powell, J A, 270, 285

Rhodes, P J, 270

Sargent, P, 389 Scott, P, 125 Sharrock, W, 5 Smets, G, 175 Stolterman, E, 448

Tizani, W M K, 248 Tovey, M, 85

KEYWORD INDEX

Aesthetics
Design education, Rationality,

Architectural designers

Narrative theory, Learning and communication strategies, 270

Architectural modelling

Collaborative design, Distributed design developments, 19

Architecture

Methodological research, Critical framework, 433

Automative design

CAD, Form creation techniques, 85 Bespoke learning environments

Integration interface, Designer centred information, 285

Blackboard

Product model, Process model, 417

Built environment

Intelligent models, Health, 332

CAD

Automative design, Form creation techniques, 85

Case-based reasoning

Design precedents, Memory organization, 141

Cognition

Design models, Protocol analysis, 125

Collaborative design

Architectural modelling, Distributed design developments, 19 Hypermedia, Engineering design, 45

Computer-aided design

Planning, Urban models, 366

Construction
Process modelling, Process sup-

port, 317 Construction-led design

Design process, Knowledgebased expert systems, 248

Theria

Design process, Solution structure, 403

Critical framework

Methodological research, Architecture, 433

Design

Information access, Searching, 260

Design Rationale

Design documentation, Reasoning, 214

Design documentation

Reasoning, Design Rationale, 214

Design education

Aesthetics, Rationality, 448

Design history

Design intent, Design information management, 59

Design information management Design intent, Design history, 59

Design intent
Design history, Design infor-

mation management, 59

Design models

Cognition, Protocol analysis, 125

Design precedents

Case-based reasoning, Memory organization, 141

Design process

Construction-led design, Knowledge-based expert systems, 248 Criteria, Solution structure, 403 Design science

Design theory, Shared memory, 389

Design theory

Design science, Shared memory, 389

Design worlds

Users, System design, 5

Designer centred information

Integration interface, Bespoke learning environments, 285

Visual thinking, Imagery, 158

Distributed design developments

Collaborative design, Architectural modelling, 19

Ecolabelling

Environmental impact, Product design, 459

Engineering design

Collaborative design, Hypermedia, 45

Environmental impact

Ecolabelling, Product design, 459 Ergonomics

Visual feature, Icon design, 185

Form creation techniques Automative design, CAD, 85

Usolth

Built environment, Intelligent models, 332

Hypermedia

Collaborative design, Engineering design, 45

Icon design

Visual feature, Ergonomics, 185

Visual thinking, Designing, 158 Industrial design

Psychology, Perception, 175 Information access

Design, Searching, 260

Integration interface

Designer centred information, Bespoke learning environments, 285

Intelligent models

Built environment, Health, 332

Knowledge-based expert systems Design process, Construction-led design, 248

Learning and communication strategies

Architectural designers, Narrative theory, 270

Literacy

Technology, Technology education, 198

Memory organization

Case-based reasoning, Design

precendents, 141

Methodological research

Critical framework, Architecture, 433

Narrative theory

Architectural designers, Learning and communication strategies, 270

Perception

Psychology, Industrial design, 175
Planning
Computer-aided design, Urban

Computer-aided design, Urban models, 366

Process model

Product model, Blackboard, 417

Process modelling

Process support, Construction,

Process support

Process modelling, Construction, 317

Product design

Ecolabelling, Environmental impact, 459

Product model

Process model, Blackboard, 417

Protocol analysis

Design models, Cognition, 125

Psychology

Perception, Industrial design, 175

Rationality

Design education, Aesthetics, 448

Reasoning

Design documentation, Design Rationale, 214

Searching

Information access, Design, 260 Shared memory

Design science, Design theory, 389

Solution structure

Criteria, Design process, 403 System design Users, Design worlds, 5

Technology

Technology education, Literacy, 198

Technology education

Technology, Literacy, 198

Urban models

Planning, Computer-aided design, 366

Users

System design, Design worlds, 5

Visual feature

Icon design, Ergonomics, 185 Visual thinking

Designing, Imagery, 158

BOOK REVIEWS 115, 230 CONFERENCE REPORT 227

